OIPE JC143 OCT 21 2004 PATENT & TRADEMARK OFFICE

SEQUENCE LISTING

<110> Liew, Choong-Chin

<120> Method for the Detection of Asthma Related Gene Transcripts in Blood

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<141> 2004-04-01

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<151> 2001-07-13

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gggtttcccg gggaacccaa ccctttaagg ggtngggggg aatttccccc caaaaaaagg 120

gaaaaanttt tccggggggc ccacccggga agggntnccg gggaaggg 168

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<211> 438
<212> DNA
<213> Human

<400> 15
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ggaacaaatt tgggatagaa atataaggct gggattacag gcatgagcca ccaagcccgg 120

cccacatttc catttttaat atatactgtg ctttacaaat attataatat gttttaaaat 180

atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360

agtcctacct aatttgatga taaaattaca tggaagggat tcttgttggc atgaggacct 420

accaagatgg tcaacaga 438

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ctttaaggnt tgggggaatt cccccaaaaa aggaaaaaat tttcccgggg gcccacccgg 120

aaaggggggaa ggcccccaaa accgggggggg gggnaaaaag gtgggtttcc ccctttttcc 180

aattcccaaa accaatttcc aaaaggnaaa ccaaccnttc ccaaaatggg aaagg 235

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caaattgggg ggnaaaccaa atttaagggg ggaaggggggg gncccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

ggggggttcc ccttgggccn tttttccttt tgggtnaaaa aaaaaaaccc cttg 294

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<211> 453
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ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc 240

attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt 360

cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggccgtg ggatgggctt 420

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cggcccgggc ccgggnagcc cttcccgggc ttttcccccg ggggggnccc gggggggacc 120

tttaggcggc accccaacaa caccaggccc tacttttttcc aaggncgggg aagcccatgg 180

gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

<210> 20
<211> 181
<212> DNA
<213> Human

<400> 20
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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120

gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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tnccccnccn nttnanacna aanntngcac tcttggntgc 100

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ataatggaag atagctntga ggatnaacnc tggttnaggg 100

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tttgnggctg cngcccctgt gcctggtgcc acaacaaatg 100

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cgggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120

aaggggggtg gggaagagcc aaatttcttt gggaaanaac gccccttgg ggaaaanaag 180

gccaaccacc tttcaacanc ccccaangcg nggaagccat ttcttgg 227

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<211> 306
<212> DNA
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<400> 25
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ttcgaccatg tgccttccca ggttgatgaa gacattgcta cacagtctgc agatcaggaa 120

ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca 180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240

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agaatg 306

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agatcgccta gccctttgcg ggcgaccacc acgatgtccc agcctgtcag gttgtcctga 120

ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct 240

agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna 300

ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct 360

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

cttgcgcggc ccgtttcttt ggggggccaa taccggggcn cggggaaaac ccgnggggng 480

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acgagccggg ctggagcggt gggaaaagca aatgtaggca taagtaacga caatgcgggc 120

gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300

tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa 360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420

anaacatcct aaggngctcg agagtacttt ctagagcggc cgcgggcccc atcgantttt 480

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gctggaaggc ttgnagggca gaaaagggat ccgcctttgg gaggaaccca ggtaaggttt 120

aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttcntncccc 180

ccaaaaaaaa aatttttaaa aaaaattttt ngcccccggg ggcattgggg g 231

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attcggcacg agggattaca gtcgtgagcc actgcacctg gctgcaatt 109

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cantcantng ttgccntntg atacccnana caaaattgaa 100

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ccgccaantt ttttcnaacc cnacttgttt tnggttttag tt 102

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naaattaggg ttncagcntg tgnantgcca ttttcgntaa 100

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cacgcacggc agcgagtgca atgnccgatt cattcttnaa cgacgcacac acccngnngc 120

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ngncacgagt tnggctgcnt ctttatacaa cttttcttca 100

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ctgcttaagt ngtcccactg gtccagacca gcgacccagc 100

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tgtcctgaag gacaagccgn ttcgtttgaa nctgtgaaat ac 102

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atttgtggtc ggaagctttg caaagagggg acctgggtct gagtgacatg cgtggccact 120

ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgtctc cccactcctg 180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc 240

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ggnaggaccc tgntgactcg gggggcggga gcngggancc agg 103

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tttaaaaatt tatgccatat gtccagcttc cagtcagtgc ttctggttag catgaggata 120

actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt 180

ttggtagcct cagtgctctt atcccaagta aaagcaaagt t 221

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nncattnngc aagcgnacnn gcgcngccna gcngaccagg 100

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atnggacnag nanacangaa acctgcanac ttggnngctt ggaagt 106

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cgaacatttc acgngcatat tgcggtgcaa gggcttactg 100

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aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt 540

tgntagatga nnngntgctc nccttgngg ctnacaaatt ccancaccnt tggtggcngc 600

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt 660

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<210> 53
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<212> DNA
<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 53
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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag 100

<210> 54
<211> 515
<212> DNA
<213> Human

<400> 54
atatggcaag gataacccct atacttctgc ataatgaatt aactaaaata acttgcaagg 60

agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120

tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa 180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

ataagtaacc tgaaaacatt ctcctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

<210> 55
<211> 176
<212> DNA
<213> Human

<220>
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<222> (5)..(5)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (40)..(40)
<223> n is a, c, g, or t

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<222> (60)..(60)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, or t

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<222> (76)..(76)
<223> n is a, c, g, or t

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<222> (107)..(107)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (155)..(155)
<223> n is a, c, g, or t

<400> 55
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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120

agcctgccct cattagacca agacagcaag gtttnccctg gtcactagat gaaatt 176

<210> 56
<211> 317
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<400> 56
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atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120

ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg 180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag 300

acattgttat tgccatt 317

<210> 57

<211> 209
<212> DNA
<213> Human

<400> 57
ctcatacacc tgtggctact gttttctaca gagtgccaaa actattcgag agaataggct 60

ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc 120

aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat 180

taattgggag tgggggctga aacaattcg 209

<210> 58
<211> 262
<212> DNA
<213> Human

<400> 58
aattttgctg ttacatggtg gctcaactga gtcccatact ttgaaggccg ggagttaatc 60

acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac 240

agagcgagac tccatctcta at 262

<210> 59
<211> 430
<212> DNA
<213> Human

<400> 59
gtcagtttat ttctgactag ggatattttc tttccattta gaaaagaaga aaaaaaaaaa 60

aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggccctt 120

cccgggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa 180

aaccggccgg ggtttttata caaactggga acccactttt gaaaaatttt ggccttttga 240

tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt 300

aagtattccc ccccgggggg cctttacaaa aagggcggtt ttaaaagctt ttgggccccc 360

ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt 420

tgggggcggc 430

<210> 60
<211> 350
<212> DNA
<213> Human

<400> 60
aaacctctct aactatatat cacaataacc tgcgcataag atttacgctc cgatcttttc 60

atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120

tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct 240

tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61
<211> 515
<212> DNA
<213> Human

<400> 61
cacataaatt ctccataagt taattagtga ttttaacatg atctcaatat aaacatagca 60

cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag 120

aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat 420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62
<211> 611
<212> DNA
<213> Human

<400> 62
caagtacttt accaactaag ccaatcttgt ccccagccag gcatttctat acaaagggcc 60

aagactttgg ttttataaat aaggaggtat atataaatta tatatatttc tgagctgagt 120

aataatccac cagatacaag tttgcatcaa cttctgtgaa atatttttt tccttttgt 180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

tttgttaaaa ttgatatatt gatatataaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480

ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac 600

cagaccaaac t 611

<210> 63
<211> 291
<212> DNA
<213> Human

<400> 63
ccgagagatt ggccactgct taaactcatg cagctcctac tgttcttcaa ttaatgcctt 60

taatgcgaat atacttcctc ttctttttgc atggtcttgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

<210> 64
<211> 309
<212> DNA
<213> Human

<400> 64
gccagatgcc gtgtttcctc gatgaactct ttacatcatt ggctattcag tggagtgttt 60

cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120

tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg 180

aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat 240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat 300

ctgattaga 309

<210> 65
<211> 278
<212> DNA
<213> Human

<400> 65
tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa 60

tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120

agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240

tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66
<211> 142
<212> DNA
<213> Human

<400> 66
agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60

ttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa 120

atagctagta aactcccccct gt 142

<210> 67
<211> 286
<212> DNA
<213> Human

<400> 67
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aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120

attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240

caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
<211> 179
<212> DNA
<213> Human

<400> 68
atctactttt tattcttttg ataaatgttt atgaaatata aaatactgaa aattagaaag 60

tagaagtcat tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120

ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat 179

<210> 69
<211> 390
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (356)..(356)
<223> n is a, c, g, or t

<400> 69
cagataagac tattaagaca gataagagcc aaatcatgta gagcctcaga ggtttttgat 60

cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120

ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt 180

agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240

gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata 300

ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360

ctcaatttct gcatgagaaa aaaggtggac 390

<210> 70
<211> 481

<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (26)..(26)
<223> n is a, c, g, or t

<400> 70
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gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360

tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480

g 481

<210> 71
<211> 125
<212> DNA
<213> Human

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<222> (5)..(5)
<223> n is a, c, g, or t

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<222> (19)..(19)
<223> n is a, c, g, or t

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<222> (29)..(29)
<223> n is a, c, g, or t

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<222> (38)..(38)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (45)..(45)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (61)..(61)
<223> n is a, c, g, or t

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<222> (77)..(77)
<223> n is a, c, g, or t

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<222> (79)..(79)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (100)..(100)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t

<400> 71
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ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120

cacag 125

<210> 72
<211> 473
<212> DNA
<213> Human

<220>
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<222> (151)..(151)
<223> n is a, c, g, or t

<400> 72
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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240

tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420

tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
<211> 500
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (233)..(233)
<223> n is a, c, g, or t

<400> 73
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat 120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480

atgagatgaa atgatgaaat 500

<210> 74
<211> 299
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (31)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (57)..(57)
<223> n is a, c, g, or t

<400> 74
ggaaatcctg aagtggaaat gatgagctga nntgcaatga gttgaaatga gatgaancga 60

tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

<210> 75
<211> 155
<212> DNA
<213> Human

<400> 75
agtgaaatga aattgaaata aaatcgaaat gagatgagat gaaatgatga gatgatgaaa 60

taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76
<211> 367
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g, or t

<220>
<221> misc_feature
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>
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<222> (56)..(56)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (75)..(75)
<223> n is a, c, g, or t

<400> 76
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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac 120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180

tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat 360

gtcattg 367

<210> 77
<211> 257
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<400> 77
actagnacag naattttagc taagtggagt ttgagttaag tggagatgtg agaccatctc 60

atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta 120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg 180

agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc actttttct 240

aggtcctttc ttagtct 257

<210> 78

<211> 373
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (61)..(62)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (109)..(109)
<223> n is a, c, g, or t

<220>
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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt 120

tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa 180

tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata 240

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc 300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg 360

gcccggggtt ttt 373

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ccttgatgtt caagtattta agaccctatg cnaatatttt ttacctttc taataaacca 120

tgtttgtt 128

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ggccaggcct tccctttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg 120

ggaaaanaaa tccttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn 180

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat 120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa 420

atgaaatgaa atgagattaa atg 443

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gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag 180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240

taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat 300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360

catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420

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<211> 135
<212> DNA
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aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga 120

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<212> DNA
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aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag 180

agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccccagct agacagaact ttgtagattt tgggggttt aaaaggcctc aagcaaattc 300

taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact 346

<210> 85
<211> 100
<212> DNA
<213> Human

<400> 85
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gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

<210> 86
<211> 201
<212> DNA
<213> Human

<400> 86
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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata 120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt 180

atgtaacagt gtggggtttc a 201

<210> 87
<211> 531
<212> DNA
<213> Human

<400> 87
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tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa 240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc 300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

<210> 88
<211> 530
<212> DNA
<213> Human

<400> 88
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cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga 120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata 180

aggaacgaac ccccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca 240

gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat 360

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct 480

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<212> DNA
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aattaaggna aggnttaaaa aatttaacca angggggggtt taaagggntt ttttttttta 180

aaaaaaaagg ttaaancccc ccctttttttt ttgggttggg gtgggaaaat tttgggaanc 240

cttaaccccc gggtttttgg gttttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

ggaccggttt ccattttaat gggtattggg aa 332

<210> 90
<211> 185
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<400> 90
actgctataa tgcaggggaa catgttctca gggtcatcct gaggggttgt gtcatggggc 60

cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa 120

taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

ctcct 185

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ctaggggtta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac 120

tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga 180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag 240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg 300

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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg 113

<210> 93
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atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt 120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa 180

cttcatagaa ccccatctct acaccaaaaa 210

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ttaganaccn atgngatggn cnnncnaaan nnttaaagtg agagtccatc tnngaanaaa 120

atgggnaant ttnnnnnggg ggggggaaaa ancccnnggg tnannggggg cccngggntt 180

naaannnggn nctnggggggg ggaaantttt ggccccccccc cgggggnttt ncctnaaaaa 240

aaanccnttt naaanacngn nanaattttn ccnnnncggg gaggngngga nnttttttttt 300

tnaannagcc ntttttgnna naaaaannnt ggnccccccc ctattccnng gnttttngga 360

ccnttnnanc ntgggnnttt ttagnccttn aaaaaaangc naatnttaag gtaaaaattn 420

ggggggggng ggggggnggn gnnttttttt ttntnnggag gggtttttttt ccnncgnggg 480

ngaaagnntg gggcnnnctn cngccn 506

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agacccagct nagcagatan ctncatttct ntctnaagnc ctttggtctg naggnngnca 120

ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180

ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300

cgtgccttac ncaaggatac ggangngctt gaaattgatg ngaccaanan tttnngtacg 360

gtaagtnacc caaccacttc tgnnttcact ntaagagncn 400

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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aaatgaaatg aaataatgaa atgaaattga ataaaattg aaatgagatg agatgaaatg 120

atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga 300

tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360

atgaaatgag gtgaaatgaa attagatgaa acgtaatgag atgaaatgac ataatgaaat 420

gaaaaaatga aatgaaataa tgaaatgagg tgaaattaaa tgagatgatg aaattaaatg 480

atgaaatgaa ataatgaaat ggaaatgaaa tggaaatgat gagatgaatg atgagatgaa 540

atgatgagat gagatgtatt gatgagagga aatgatgaga tgtaatgaaa tgagatgaaa 600

tgaatgagat gaaatggaat antggaangg aaattgattg gngatttgag atgaaatgag 660

ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccggggtgnn tgagatgaat 720

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gntggnanaa tgcctgtngg 800

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<211> 334
<212> DNA
<213> Human

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atgaaatgat attgaaatga aattgaaaga tgagatgatg agatgaaatg gtgaaatgtt 120

gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180

tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240

atgaaatgaa aatgaaatgg aaatgatgag atgagaagaa atgatgagat gagatgagat 300

aaaatgagat gaaatgatga gatgaaatga tgag 334

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<212> DNA
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tgcttggtag acgcttttga acccttcagc gctgaaagta 100

<210> 99
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<212> DNA
<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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agatgaaaag agttgatgag atgatgagat gaaatgagat gaaaagagat gaaatgagat 120

gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

tgaatgatga gatgaaatga tgagatgaga tctaatgatg agaggagatg atgagatgaa 360

ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

tgaaattaga tgaaacgtaa tgagatgaaa tgacataatg aaatgaaaaa atgaaatgaa 480

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tccccttgaa nntctctaaa ccttaacttt ctggccnttt tgtttcagan atgcctaacc 120

ctcaggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt 180

cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc 240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta 300

tggcttggaa atagtttagc tgaacattat gctttaatat tttactggcc attgcagcac 360

aggtttagaa atttatgttc ggctttttaa agtttta 397

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<212> DNA
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attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc 120

ngaggaagac cc 132

<210> 102
<211> 246
<212> DNA
<213> Human

<400> 102
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ggcacttaat tttataattg atatatataa taaaaaattc aatgcagata ttgatataat 120

aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttggggtt 180

aacctataac ttattaagta aagtgccaga atggttcttt gacagtatta aaattaaaga 240

aaacag 246

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<400> 103
gccctctggg gacctgac 18

<210> 104
<211> 18
<212> DNA
<213> Artificial Sequence

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<222> (1)..(18)

<400> 104
cccacctgca ggtcctct 18

<210> 105
<211> 24
<212> DNA
<213> Artificial Sequence

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gctggaacgt agagactccc tgct 24

<210> 106
<211> 24
<212> DNA
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<400> 106
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<210> 107
<211> 20
<212> DNA
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<210> 108
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<213> Artificial Sequence

<220>
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<400> 108
gcagatcgat cagaggagtc 20

<210> 109
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<212> DNA
<213> Artificial Sequence

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<222> (1)..(20)

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<210> 110
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
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<210> 111
<211> 21

<212> DNA
<213> Artificial Sequence

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<210> 112
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<212> DNA
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